

Appendix CC



John Burcham
HARRF Superintendent
1521 South Hale Avenue, Escondido, CA 92029
Phone: 760-839-6273 Fax: 760-738-5168

February 25, 2005

Mr. John Robertus
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9264 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: POTW Compliance Unit

Subject: Submittal of January 2005 Monthly Reports

Dear Sirs:

Attached are the subject Discharge Monitoring Reports for the Hale Avenue Resource Recovery Facility (HARRF) as required by Order No. 93-70.

If you have any questions, contact me at (760) 839-6273.

Sincerely,

A handwritten signature in cursive script that reads "John Burcham".

John Burcham
HARRF Superintendent

Attached: January 2005 Monthly Reports

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

2005 FEB 28 P 12:27

SELF-MONITORING REPORT

JANUARY 2005

CITY OF ESCONDIDO

Hale Avenue Resource Recovery Facility

Order No. 93-70

2005 FEB 28 P 12:28

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Mary Ann Mann
Utilities Manager

SELF-MONITORING REPORT REVIEW

To: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

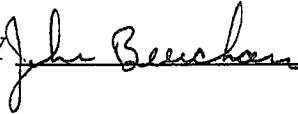
DISCHARGER City of Escondido, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION NO. 93-70

REPORT FOR JANUARY 2005 REPORT DUE FEBRUARY 2005

REPORT FREQUENCY MONTHLY

SIGNED UNDER PENALTY OF PERJURY



Our Review of the Attached Self-Monitoring Report Reveals the Following Monitoring Violation(s):

Two violations occurred in the month of January for

1. Recycled water turbidity was exceeded an average operation turbidity of 2 NTU on January 9 and 18, 2005.
2. No sample collected on January 18, 2005 for Total Coliforms analysis.

The Following Remedial Action will be (has been) Taken to Correct the Monitoring Violation Listed Above:

1. Turbidity violations.

During January 2005 the treatment plant experienced high influent flows caused by an extreme wet weather event(s). A suspected cause was a change in the wastewater makeup due the increased amount of rainwater. Currently the filter aid being used is a poly aluminum chloride (JenChem) product. This product works well within a specific pH range. We suspect that even a slight increase or decrease in pH may change the way the filter aid reacts. What we were experiencing was coagulation of

the floc post filter, causing an increase in turbidity. We are researching other filter aid products which would work more efficiently during these events.

2. No sample collected for total coliforms.

Lack of a coliform sample was due to operator error. On January 15, 2005 recycled water was pumped to the storage reservoir. After the reservoir is filled the recycled water pump(s) automatically shut off. By January 18, 2005, through normal recycled water usage, the level had dropped to a preset point which automatically turned the Recycled Water pumps. The operator was unaware that the pumps had started and did not collect a sample for total coliforms testing. In the future the operation staff will manually shut down all recycle water pumps to eliminate automatic restarts. Operation supervisor has updated the operator SOP. Please see attachment.

TITLE 22 Shut Down Procedure

Shut down Recycle Water Pump(s):

From Process Screen go to: *RWPS (Pumps 10-P-1 through 10-P-5)*
Click on the pump(s) that are running and select *STOP*

Note: If Reservoir reaches its level shut down set point, the pumps will shut down automatically. Make sure you go over the shutdown procedures. If you do not select the pumps to *STOP*, they will start automatically when the reservoir reaches its level dead band set point.

Set T-22 Composite Sampler Program to HALT:

Go to top of *RWPS Building*
Press **Halt** button on composite sampler
Program will change to "**Program Halted**" indicating the composite sampler is off-line.

Set filter feed at ZERO:

From Process Screen go to: *SEPS – Filter Influent Pumps*
Click on *FLOW SP* (flow set point)
Punch in 0 MGD flow and press *OK*.

Set Filter Influent Pumps to STOP

From Process Screen go to: *SEPS – Filter Influent Pumps*
Click on the pumps that are in AUTO and select *STOP*

Close all filters:

From Process Screen go to: *Filters and Flocculators*
Click on the green **M** for correspondent gate (*9-G-5 through 9-G-12*)
Select *CLOSE* position (after a few minutes **M** will turn red – closed position)

Close UV channel gate(s):

From Process Screen go to: *UV System*.
Click on the green **M** for *9-G-13* (channel 1) or *9-G-14* (channel 2).
Select *CLOSE* position. (Wait until Gates are completely **CLOSED**)

Turn off all UV banks: (After closing the UV gates)

From Process Screen go to: *UV System*.
Click on *UV System Screens box*
Click on *Bank Control* Start turning off each bank
UV-13-1 through uv-13-5 are on channel #1
UV-14-1 through uv-14-5 are on channel #2
Click on each bank and select *OFF*
(It takes approximately 30 seconds for the program to acknowledge your command)
Continue until all banks are off
To exit that screen, click on "*Return to Main HMI*"

Shut down Jenchem Pump:

From Process Screen go to: *JenChem System*

Click on the *pump that is running* Select **STOP** and close window

Make sure Sodium Hypochlorite Pump to the Reservoir is not running:

If feeding from *Sodium Hypochlorite System*,

From Process Screen go to: *Sodium Hypochlorite System*

Click on **6-FD-1 (Pre/Post UV)** Select **STOP**

If feeding from *RWPS Sodium Hypochlorite System*,

From Process Screen go to: *RWPS Sodium Hypochlorite*

Click on **10-FD-1 or 10-FD-2** Select **STOP** and close window

Turn off air supply system and air dryer for Title-22:

Go to the compressor area (south east side of UV building)

Press the red buttons to stop compressors **9-ME-18** and **9-ME-19**

Go behind the air dryer box. Press the **start/stop** button in the display box to turn it off.

Make sure Bac-Ti sample lines are closed so channels will not drain.

TITLE 22 Start Up Procedure

Turn on air supply system and air dryer for Title-22:

Go to the compressor area (south east side of UV building)
Press the **GREEN** buttons to **START** compressors **9-ME-18** and **9-ME-19**
Proceed to the air dryer.
Go behind the air dryer box and press the **start/stop** button in the display box to turn it on.

Set filter feed. Start with 1 MGD if activating one channel or 2 MGD if activating two channels. Adjust flow as soon as turbidity start to come down or as necessary.

From Process Screen go to: **SEPS – Filter Influent Pumps**
Click on **FLOW SP** (flow set point)
Punch in desired **MGD** flow and press **OK**
Set Filter Influent pumps **7-P-6, 7-P-7 & 7-P-8** to **AUTO**
(If 7-P-8 trips please reset at SEPS MCC panel and again on HMI)

Open filters: Start with two filters if flow to filters is set to 1 MGD or four filters If flow to filters is set to 2 MGD (each filter can handle 0.625 MGD).

From Process Screen go to: **Filters and Flocculators**
Click on the **RED M** for correspondent gate (**9-G-5 through 9-G-12**)
Select **OPEN** position the **M** will turn **GREEN** – (open- position)

Start-Up Jenchem Pump:

From Process Screen go to: **JenChem System**
Click on **desired** pump (**6-FD-7** or **6-FD-8**)
Select **AUTO** then close window. **Select designated pump to DUTY**
Click on setup, click on number corresponding to dosage.
Punch in desired dosage (**adjust Jenchem dosage as turbidity allows**)

Turn on all UV banks: (even if channel is empty)

(always use caution around empty channels when UV banks are on)
From Process Screen go to: **UV System**.
Click on **UV System Screens box**
Click on **Bank Control** Start turning on each bank
uv-13-1 through uv-13-5 are on channel #1
uv-14-1 through uv-14-5 are on channel #2
Click on each bank and select **ON**
(It takes approximately **30 seconds** for the program to acknowledge your command)
Continue until all banks are ON
To exit that screen, click on **"Return to Main HMI"**

Open UV channel gate(s):

From Process Screen go to: **UV System**.
Click on the **RED M** for **9-G-13** (channel 1) or **9-G-14** (channel 2).
Select **OPEN** position.

Put UV transmittance analyzer on-line:

Line that goes to the transmittance analyzer is located at the end of each channel.
Manipulate valves to direct flow accordingly.

Clean Q-vet if necessary: (Located inside of Transmittance Analyzer Box)

Q-vet will need to be removed by **unlocking** the small black housing.
Unscrew glass Q-vet and dump water then rinse with D.I. water.
Wipe glass clean with non-abrasive cloth or Kimwipe
When Q-vet is clean please re-install and lock small black housing.

Clean all turbidity meters: (SEPS, after Filters and "Galley")

(Note: if turbidity going out is **greater than 2ppm** there will be a UV System RWPS Shutdown alarm)
The system will start a **0.150 MGD** flush cycle **RW pumps will not start** until flush cycle has been completed.
To verify flush cycle is over go to **UV Systems** and look at **Total Overflow**

WAIT UNTIL FUSH CYCLE ENDS (.150 MGD) AND TURBIDITY IS BELLOW 2 PPM

Start Up Recycle Water Pump(s):

From Process Screen go to: **RWPS**
Click on desired pump(s) (**Smaller pumps 10-P-1 & 10-P-2**) and select **AUTO**
Make sure wet well level set point is at **13.0 ft.**
If wet well level **exceeds 14.4 ft** it will **overflow** to the equalization pond.

Make sure Sodium Hypochlorite Pump to the Reservoir is running (Post UV):

If feeding from Sodium Hypochlorite System,
From Process Screen go to: Sodium Hypochlorite System
Click on **6-FD-1 (Pre/Post UV)**
Select **AUTO**
Click on **setup**, click on number corresponding to **dosage**.
Punch in **desired dosage** (start at **2 mg/l**, click on **"Apply New Values"**)
***Adjust dosage later according to chlorine residual**
If feeding from RWPS Sodium Hypochlorite System,
From Process Screen go to: RWPS Sodium Hypochlorite
Click on **10-FD-1 or 10-FD-2**
Select **AUTO** and close window

Resume T-22 Composite Sampler Program:

Go to the top of **RWPS Building**
Press **RESUME** button on composite sampler
Program status will return to **"program running"** indicating the composite sampler is on-line.

PS: AS SOON AS TURBIDITY IS LESS THAN 2 PPM, OPEN VALVES TO T-22 BACTI SAMPLE PORT TO FLUSH THE SYSTEM.

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR :January 2005

REPORT DUE : February 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE TYPE: Continuous recording Flow meter and Turbidity Meter

SIGNED UNDER PENALTY OF PERJURY Van Wipfligt

Date	Flow	Turbidity	Turbidity
Units	MGD	NTU	NTU
Reqt.		Influent Aveage	Effluent Aveage
1/1/2005	*	*	*
2	*	*	*
3	0.72	3.4	1.3
4	0.57	1.5	1.3
5	0.06	2.0	1.6
6	*	*	*
7	0.36	1.9	0.8
8	0.58	2.4	1.5
9	1.13	2.3	2.3
10	*	*	*
11	*	*	*
12	*	*	*
13	*	*	*
14	0.45	2.3	2.0
15	0.20	5.1	1.6
16	*	*	*
17	*	*	*
18	0.20	3.0	3.0
19	0.43	2.7	0.6
20	*	*	*
21	0.67	7.2	0.8
22	*	*	*
23	*	*	*
24	*	*	*
25	*	*	*
26	0.50	3.6	1.1
27	*	*	*
28	0.71	1.3	0.9
29	*	*	*
30	*	*	*
31	0.68	1.01	0.87
Average	0.5	2.8	1.4
Maximum	1.1	7.2	3.0
Minimum	0.1	1.0	0.6

* :No distribution

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR : January 2005

REPORT DUE : February 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Va Wipalap

TOTAL COLIFORMS		
DATE	Daily Maximum	7 day Median
Units	mpn/100ml	mpn/100ml
Reqd.	23	2
1/1/2005	*	*
2	*	*
3	< 2	< 2
4	< 2	< 2
5	2	< 2
6	*	*
7	< 2	< 2
8	< 2	< 2
9	< 2	< 2
10	*	*
11	*	*
12	*	*
13	*	*
14	< 2	< 2
15	< 2	< 2
16	*	*
17	*	*
18	**	**
19	< 2	< 2
20	*	*
21	< 2	< 2
22	*	*
23	*	*
24	*	*
25	*	*
26	< 2	< 2
27	*	*
28	< 2	< 2
29	*	*
30	*	*
31	< 2	< 2
Median	< 2	< 2
Maximum	2	< 2
Minimum	< 2	< 2

* No distribution

** Operation error

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR :January 2005

REPORT DUE : February 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff & APCL

SIGNED UNDER PENALTY OF PERJURY

Van Cipt

Constituent/ Property	12-month Average Limit	Daily Maximum Limit	Method	ML/ PQL	MDL	Sample Date	Daily Maximum	Monthly Average	Units
Total Dissolved Solid	1000	1100	SM2540C	10	1	1/05	950	888	mg/l
Fluoride	2.0	--	EPA 300.0	0.05	0.008	1/3/05	0.646	0.646	mg/l
Chloride	300	330	EPA 300.0	0.5	0.08	1/3/05	184	184	mg/l
Sulfate	350	400	EPA 300.0	1	0.1	1/3/05	216	216	mg/l
Manganese	0.05	0.06	200.7	0.005	1.7E-04	1/3/05	0.0374	0.0374	mg/l
Boron	0.8	--	200.7	0.300	0.038	1/3/05	0.440	0.440	mg/l
Iron	0.3	0.4	200.7	0.050	0.0054	1/3/05	0.0583	0.0583	mg/l
Adjusted Sodium Absorption Ratio	--	--	Calculation	--	--	1/3/05	4.52	4.52	--
Percent Sodium	60	65	Calculation	--	--	1/3/05	52.4	52.4	%

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR : January 2005

REPORT DUE : February 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY APCL

SIGNED UNDER PENALTY OF PERJURY

Van Wihapt

Constituent/ Property	Units	6-Month Median	Daily Maximum	Instantaneous Maximum	Method	PQL	MDL	
Sample Date								Daily Max. Result
								1/3/2005
Arsenic	ug/l	1100	6400	17000	200.7	5	1.2	< 5
Cadmium	ug/l	220	880	2200	200.7	2	0.24	< 2
Chromium	ug/l	440	1800	4400	200.7	5	2.1	< 5
Copper	ug/l	220	2200	6200	200.7	10	3.4	J 7.4
Lead	ug/l	440	1800	4400	200.7	5	1	< 5
Mercury	ug/l	8.7	35	88	245.1	1	0.025	J 0.19
Selenium	ug/l	3300	13000	33000	200.7	10	3.3	< 10
Silver	ug/l	64	360	960	200.7	10	0.66	< 10
Zinc	ug/l	2700	16000	42000	200.7	10	2.8	49.2
Aluminum	ug/l	--	--	--	200.7	100	20	217
Barium	ug/l	--	--	--	200.7	10	1.3	48.2

J: Report between PQL and MDL

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR :January 2005

REPORT DUE : February 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Vase Ciptat

	pH	Conductivity	TSS	VSS	BOD
Units	mg/l	mmho/cm	mg/l	mg/l	mg/l
Method	SM 4500 H-B	SM2510B	SM2540D	SM 2540	SM 5210B
ML	--	--	1	1	3
1/1/2005					
2					
3	7.9	1427	3.6	3.2	6.4
4					
5					
6					
7					
8					
9	7.8	1411	4.9	4.4	< 4
10					
11					
12					
13					
14					
15					
16					
17					
18					
19	7.8	1652	3.3	3.1	2.1
20					
21					
22					
23					
24					
25					
26	7.7	1612	4.5	3.6	< 3
27					
28					
29					
30					
31					
Average	7.8	1526	4.1	3.6	< 3.9
Maximum	7.9	1652	4.9	4.4	6.4
Minimum	7.7	1411	3.3	3.1	2.1



John Burcham
HARRF Superintendent
1521 South Hale Avenue, Escondido, CA 92029
Phone: 760-839-6273 Fax: 760-738-5168

March 24, 2005

Mr. John Robertus
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: POTW Compliance Unit

Subject: Submittal of February 2005 Monthly Reports

Dear Sirs:

Attached are the subject Discharge Monitoring Reports for the Hale Avenue Resource Recovery Facility (HARRF) as required by Order No. 93-70.

If you have any questions, contact me at (760) 839-6273.

Sincerely,

A handwritten signature in dark ink, appearing to read "John Burcham". The signature is fluid and cursive, with the first name "John" being more prominent than the last name "Burcham".

John Burcham
HARRF Superintendent

Attached: February 2005 Monthly Reports

2005 MAR 29 P 2:07

SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD

SELF- MONITORING REPORT

FEBRUARY 2005

CITY OF ESCONDIDO

Hale Avenue Resource Recovery Facility

Order No. 93-70

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

A handwritten signature in black ink, appearing to read "Mary Ann Mann", written over a horizontal line.

Mary Ann Mann
Utilities Manager

SELF- MONITORING REPORT REVIEW

To: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

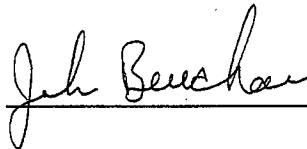
DISCHARGER City of Escondido, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION NO. 93-70

REPORT FOR FEBRUARY 2005 REPORT DUE MARCH 2005

REPORT FREQUENCY MONTHLY

SIGNED UNDER PENALTY OF PERJURY



Our Review of the Attached Self-Monitoring Report Reveals the Following Monitoring Violation(s):

Violations occurred in the month of February were exceeded an average operation turbidity of 2 NTU on February 1, 12, 13, 21, and 22 2005.

The Following Remedial Action will be (has been) Taken to Correct the Monitoring Violation Listed Above:

During February 2005 the treatment plant experienced high influent flows caused by an extreme wet weather event(s). A suspected cause was a change in the wastewater makeup due the increased amount of rainwater. Currently the filter aid being used is a poly aluminum chloride (JenChem) product. This product works well within a specific pH range. We suspect that even a slight increase or decrease in pH may change the way the filter aid reacts. What we were experiencing was coagulation of the floc post filter, causing an increase in turbidity. We are researching other filter aid products which would work more efficiently during these events.

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70 REPORT FREQUENCY MONTHLY

REPORT FOR :February 2005 REPORT DUE : March 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE TYPE: Continuous recording Flow meter and Turbidity Meter

SIGNED UNDER PENALTY OF PERJURY Van Lipton

Date	Flow	Turbidity	Turbidity
Units	MGD	NTU	NTU
Reqt.		Influent Aveage	Effluent Aveage
2/1/2005	0.02	3.0	3.3
2	*	*	*
3	*	*	*
4	0.49	2.3	1.3
5	*	*	*
6	*	*	*
7	0.01	2.3	1.6
8	0.68	2.5	1.8
9	0.04	3.1	1.7
10	*	*	*
11	0.14	3.4	1.9
12	1.16	3.3	2.3
13	1.00	2.8	2.3
14	*	*	*
15	*	*	*
16	*	*	*
17	*	*	*
18	*	*	*
19	*	*	*
20	*	*	*
21	1.76	8.4	3.3
22	0.06	8.1	3.2
23	*	*	*
24	*	*	*
25	*	*	*
26	*	*	*
27	0.14	9.5	0.1
28	*	*	*
Average	0.5	4.4	2.1
Maximum	1.8	9.5	3.3
Minimum	0.0	2.3	0.1

* :No distribution

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR :February 2005

REPORT DUE : March 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Van Updell

TOTAL COLIFORMS		
DATE	Daily Maximum	7 day Median
Units	mpn/100ml	mpn/100ml
Reqd.	23	2
2/1/2005	< 2	< 2
2		
3		
4	< 2	< 2
5		
6		
7	< 2	< 2
8	< 2	< 2
9	< 2	< 2
10		
11	< 2	< 2
12	< 2	< 2
13	< 2	< 2
14		
15		
16		
17		
18		
19		
20		
21	< 2	< 2
22	2	< 2
23		
24		
25		
26		
27	< 2	< 2
28		< 2
Median	< 2	< 2
Maximum	2	< 2
Minimum	< 2	< 2

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR :February 2005 REPORT DUE : March 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff & APCL

SIGNED UNDER PENALTY OF PERJURY Van Hipton

Constituent/ Property	12-month Average Limit	Daily Maximum Limit	Method	ML/ PQL	MDL	Sample Date	Daily Maximum	Monthly Average	Units
Total Dissolved Solid	1000	1100	SM2540C	10	1	2/1/05 & 2/8/05	905	850	mg/l
Fluoride	2.0	--	EPA 300.0	0.05	0.008	2/8/05	0.890	0.890	mg/l
Chloride	300	330	EPA 300.0	0.5	0.08	2/8/05	196	196	mg/l
Sulfate	350	400	EPA 300.0	1	0.1	2/8/05	212	212	mg/l
Manganese	0.05	0.06	200.7	0.005	1.7E-04	2/8/05	0.0354	0.0354	mg/l
Boron	0.8	--	200.7	0.300	0.038	2/8/05	0.755	0.755	mg/l
Iron	0.3	0.4	200.7	0.050	0.0054	2/8/05	0.0444	0.0444	mg/l
Adjusted Sodium Absorption Ratio	--	--	Calculation	--	--	2/8/05	4.24	4.24	--
Percent Sodium	60	65	Calculation	--	--	2/8/05	51.3	51.3	%

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR :February 2005

REPORT DUE : March 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY APCL

SIGNED UNDER PENALTY OF PERJURY

Van Hiptent

Constituent/ Property	Units	6-Month Median	Daily Maximum	Instantaneous Maximum	Method	PQL	MDL	Daily Max. Result
Sample Date								2/8/2005
Arsenic	ug/l	1100	6400	17000	200.7	5	1.2	< 5
Cadmium	ug/l	220	880	2200	200.7	2	0.24	< 2
Chromium	ug/l	440	1800	4400	200.7	5	2.1	< 5
Copper	ug/l	220	2200	6200	200.7	10	3.4	10
Lead	ug/l	440	1800	4400	200.7	5	1	< 5
Mercury	ug/l	8.7	35	88	245.1	1	0.025	0.93
Selenium	ug/l	3300	13000	33000	200.7	10	3.3	J 4
Silver	ug/l	64	360	960	200.7	10	0.66	< 10
Zinc	ug/l	2700	16000	42000	200.7	10	2.8	57.9
Aluminum	ug/l	--	--	--	200.7	100	20	155
Barium	ug/l	--	--	--	200.7	10	1.3	44.6

J: Report between PQL and MDL

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR :February 2005

REPORT DUE : March 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Van Wintert

	pH	Conductivity	TSS	VSS	BOD
Units	mg/l	mmho/cm	mg/l	mg/l	mg/l
Method	SM 4500 H-B	SM2510B	SM2540D	SM 2540	SM 5210B
ML	--	--	1	1	3
2/1/2005	7.80	1585	4.8	4.5	< 3
2					
3					
4					
5					
6					
7					
8	7.6	1514	3.7	3.4	3.1
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21	7.6	1314	9.3	7.9	6.7
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Average	7.7	1471	5.9	5.3	< 4.3
Maximum	7.8	1585	9.3	7.9	6.7
Minimum	7.6	1314	3.7	3.4	< 3.0



SAN DIEGO REGIONAL
WATER QUALITY
CONTROL BOARD
John Burcham
HARRF Superintendent
1521 South Hale Avenue, Escondido, CA 92029
Phone: 760-839-6273 Fax: 760-738-5168
2005 MAY -2 P 2:06

April 27, 2005

Mr. John Robertus
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340
Attn: POTW Compliance Unit

Subject: Submittal of March 2005 Monthly Reports

Dear Sirs:

Attached are the subject Discharge Monitoring Reports for the Hale Avenue Resource Recovery Facility (HARRF) as required by Order No. 93-70.

If you have any questions, contact me at (760) 839-6273.

Sincerely,

A handwritten signature in cursive script, appearing to read "John Burcham".

John Burcham
HARRF Superintendent

Attached: March 2005 Monthly Reports

2005 MAY -2 P 2: 06

SELF- MONITORING REPORT

MARCH 2005

CITY OF ESCONDIDO

Hale Avenue Resource Recovery Facility

Order No. 93-70

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Mary Ann Mann
Utilities Manager

SELF- MONITORING REPORT REVIEW

To: **CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
SAN DIEGO REGION
9174 Sky Park Court, Suite 100
San Diego, CA 92123-4340

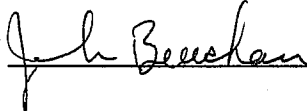
DISCHARGER City of Escondido, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION NO. 93-70

REPORT FOR MARCH 2005 **REPORT DUE** APRIL 2005

REPORT FREQUENCY MONTHLY

SIGNED UNDER PENALTY OF PERJURY



Our Review of the Attached Self-Monitoring Report Reveals the Following Monitoring Violation(s):

No violation occurred in during March 2005.

The Following Remedial Action will be (has been) Taken to Correct the Monitoring Violation Listed Above:

No remedial action required.

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70 REPORT FREQUENCY MONTHLY

REPORT FOR : March 2005

REPORT DUE : APRIL 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE TYPE: Continuous recording Flow meter and Turbidity Meter

SIGNED UNDER PENALTY OF PERJURY

Ven. W. Plant

Date	Flow	Turbidity	Turbidity
Units	MGD	NTU	NTU
Reqt.		Influent Aveage	Effluent Aveage
3/1/2005	*		
2	*		
3	0.40	8.5	2.3
4	0.48	7.6	1.8
5	*		
6	*		
7	0.11	5.9	2.1
8	0.50	5.0	1.4
9	*		
10	0.34	3.8	1.3
11	1.07	3.8	1.7
12	*		
13	*		
14	*		
15	0.33	4.0	1.5
16	0.68	4.5	1.9
17	*		
18	*		
19	*		
20	*		
21	0.42	4.3	1.9
22	0.55	4.5	1.8
23	*		
24	*		
25	0.54	5.5	1.8
26	*		
27	*		
28	0.81	3.9	1.9
29	0.85	3.7	1.7
30	*		
31	*		
Average	0.5	5.0	1.8
Maximum	1.1	8.5	2.3
Minimum	0.1	3.7	1.3

* :No distribution

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR : March 2005

REPORT DUE : APRIL 2005

EXACT SAMPLE POINT: Effluent end of UV infection Channel

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Va. Lipton

TOTAL COLIFORMS		
DATE	Daily Maximum	7 day Median
Units	mpn/100ml	mpn/100ml
Reqd.	23	2
3/1/2005	*	*
2	*	*
3	< 2	< 2
4	< 2	< 2
5	*	*
6	*	*
7	< 2	< 2
8	< 2	< 2
9	*	*
10	< 2	< 2
11	< 2	< 2
12	< 2	< 2
13	*	*
14	*	*
15	< 2	< 2
16	2	2
17	*	*
18	*	*
19	*	*
20	*	*
21	< 2	< 2
22	< 2	< 2
23	*	*
24	*	*
25	< 2	< 2
26	*	*
27	*	*
28	< 2	< 2
29	< 2	< 2
30	*	*
31	*	*
Median	< 2	< 2
Maximum	2	2
Minimum	< 2	< 2

* No distribution

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR : March 2005

REPORT DUE : APRIL 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff & APCL

SIGNED UNDER PENALTY OF PERJURY

Van Lipton

Constituent/ Property	12-month Average Limit	Daily Maximum Limit	Method	ML/ PQL	MDL	Sample Date	Daily Maximum	Monthly Average	Units
Total Dissolved Solid	1000	1100	SM2540C	10	1	3/3/05	935	888	mg/l
Fluoride	2.0	--	EPA 300.0	0.05	0.008	3/3/05	0.73	0.73	mg/l
Chloride	300	330	EPA 300.0	0.5	0.08	3/3/05	195	195	mg/l
Sulfate	350	400	EPA 300.0	1	0.1	3/3/05	224	224	mg/l
Manganese	0.05	0.06	200.7	0.005	1.7E-04	3/3/05	0.06	0.06	mg/l
Boron	0.8	--	200.7	0.300	0.038	3/3/05	0.545	0.545	mg/l
Iron	0.3	0.4	200.7	0.050	0.0054	3/3/05	0.051	0.051	mg/l
Adjusted Sodium Absorption Ratio	--	--	Calculation	--	--	3/3/05	4.27	4.27	--
Percent Sodium	60	65	Calculation	--	--	3/3/05	49.7	49.7	%

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FOR : March 2005

REPORT DUE : APRIL 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY APCL

SIGNED UNDER PENALTY OF PERJURY Van Liptent

Constituent/ Property	Units	6-Month Median	Daily Maximum	Instantaneous Maximum	Method	PQL	MDL	Daily Max. Result	
Sample Date								3/4/2005	
Arsenic	ug/l	1100	6400	17000	200.7	5	1.2	6.0	
Cadmium	ug/l	220	880	2200	200.7	2	0.24	<	2
Chromium	ug/l	440	1800	4400	200.7	5	2.1	<	5
Copper	ug/l	220	2200	6200	200.7	10	3.4	12.3	
Lead	ug/l	440	1800	4400	200.7	5	1	<	5
Mercury	ug/l	8.7	35	88	245.1	1	0.025	J	0.16
Selenium	ug/l	3300	13000	33000	200.7	10	3.3	J	5.1
Silver	ug/l	64	360	960	200.7	10	0.66	<	10
Zinc	ug/l	2700	16000	42000	200.7	10	2.8	54.4	
Aluminum	ug/l	--	--	--	200.7	100	20	176	
Barium	ug/l	--	--	--	200.7	10	1.3	43.2	

J: Report between PQL and MDL

MONTHLY WATER RECLAMATION MONITORING REPORT

DISCHARGER CITY OF ESCONDIDO, Hale Avenue Resource Recovery Facility

ORDER/RESOLUTION No. 93-70

REPORT FREQUENCY MONTHLY

REPORT FOR : March 2005

REPORT DUE : APRIL 2005

EXACT SAMPLE POINT: Recycle pump station

SAMPLE COLLECTED BY Operation Staff SAMPLED ANALYZED BY Lab Staff

SIGNED UNDER PENALTY OF PERJURY

Van Lipt

	pH	Conductivity	TSS	VSS	BOD
Units	mg/l	mmho/cm	mg/l	mg/l	mg/l
Method	SM 4500 H-B	SM2510B	SM2540D	SM 2540	SM 5210B
ML	--	--	1	1	3
3/1/2005					
2					
3	7.7	1524	5.4	4.7	4.4
4					
5					
6					
7					
8	7.7	1330	3.0	2.3	< 3
9					
10					
11					
12					
13					
14					
15	7.6	1554	3.8	3.4	< 3
16					
17					
18					
19					
20					
21	7.7	1505	5.3	4.2	< 3
22					
23					
24					
25					
26					
27					
28	7.7	1480	4.8	4.4	< 3
29					
30					
31					
Average	7.7	1479	4.5	3.8	< 3.3
Maximum	7.7	1554	5.4	4.7	4.4
Minimum	7.6	1330	3.0	2.3	< 3.0